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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/796,173	- ·	03/10/2004	Christian Dachauer	004640-044	3507	
21839	7590	11/03/2005		EXAMINER		
		ERSOLL PC	ŁU, JIPING			
POST OFFI		NS, DOANE, SWECH 1404	SER & MATHIS)	ART UNIT	PAPER NUMBER	
ALEXAND	RIA, VA	22313-1404		3749		
				DATE MAILED: 11/03/2006	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/796,173	DACHAUER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jiping Lu	3749	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet	with the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may d will apply and will expire SIX (6) MO tte, cause the application to become	ICATION. The reply be timely filed The reply be timely be time	
Status			
Responsive to communication(s) filed on 28. This action is FINAL . 2b) ☑ The Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal ma	· •	s is
Disposition of Claims			
4) ☐ Claim(s) 1-29 and 31-43 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 14 and 15 is/are allowed. 6) ☐ Claim(s) 1-13, 16-29, 31-43 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	٠,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Other:	<u></u> .	

DETAILED ACTION

1. Claims 1-29 and 31-43 are pending. Claim 30 is canceled.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-13, 16-29, 31, 33-43 are rejected under 35 U.S.C. 103 as unpatentable over Petersen (U. S. Pat. 5,133,137) in view of Geissbuhler et al (DE 19500383 A1).

Petersen shows a fluidized bed continuous thermal treatment of granular bulk material same as the broad claims. Petersen's device includes a product inlet 12, 24, 25 in a first chamber 13, a product outlet 23 in the last chamber 14 downstream from the first chamber 13 and several fluidization chambers (at 14, 17, 55) with several gas permeable sieve bottom 16, 17. The gas 18, 19 is injected into respective chamber 13, 14, to fluidize the granulate and exited in a roof area 20 of the device. Adjacent chambers are separated by separating walls 15. For claim 6, see openings 22. For claim 10, see 22a. However, the device of Petersen does not show a zigzag separator forming a roof of the chambers. Geiossbuhler et al. shows a zigzag separator 13 forming a roof of the chamber 1 between a surface of the fluidized layer and a fluidization gas vent 3 same as the applicant's. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the chambers of fluidized bed of Petersen with a zigzag separator roof as taught by Geissbuhler et al. in order to provide a serpentine path of granulate for better granulate separation and heat exchange. With regard to

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the claimed the granulate size, chamber shape and type of bulk material, it would have been an obvious matter of design choice to design the choose the size of the granular particle and the shape of the chamber with any desired size and shape in order to obtain the optimum result since applicant has not disclosed that the claimed size and shape solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill in the art and it appears that the claimed feature does not distinguish the invention over similar features in the prior art. For claims 41-43, to use the device of Petersen for treating PET or polymer granulate is deemed to be an obvious matter of uses.

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4. Claims 1-13, 16-29, 31, 33-43 are rejected under 35 U.S.C. 103 as unpatentable over Brassert et al. (U. S. Pat. 2,316,664) in view of Geissbuhler et al (DE 19500383 A1).

Brassert et al show a fluidized bed continuous thermal treatment of granular bulk material same as the broad claims. Brassert's device includes a product inlet 4 in a first chamber (between 132 and 102), a product outlet 72 in the last chamber (near 78) downstream from the first chamber and several fluidization chambers with several gas permeable sieve bottom. The gas 22 is injected into respective chambers to fluidize the granulate and exited in a roof area 60 of the device. Adjacent chambers are separated by separating walls 132. However, the device of Brassert et al does not show a zigzag separator. Geiossbuhler et al. shows a zigzag separator 13 forming a roof of the chamber 1 between a surface of the fluidized layer and a fluidization gas vent 3 same as the applicant's. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the chambers of the fluidized bed of Brassert et al with a zigzag separator roof as taught by Geissbuhler et al. in order to provide a serpentine path of granulate for better granulate separation and heat exchange. With regard to

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the claimed the granulate size, chamber shape and type of bulk material, it would have been an obvious matter of design choice to design the choose the size of the granular particle and the shape of the chamber with any desired size and shape in order to obtain the optimum result since applicant has not disclosed that the claimed size and shape solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill in the art and it appears that the claimed feature does not distinguish the invention over similar features in the prior art. For claims 41-43, to use the device of Brassert et al. for treating PET or polymer granulate is deemed to be an obvious matter of uses.

5. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Petersen (U. S. Pat. 5,133,137) or Brassert et al. (U. S. Pat. 2,316,664) in view of Geissbuhler et al (DE 19500383 A1) as applied to claim 1 as above, and further in view of Sanderson (U. S. Pat. 3,360,867).

The device of Petersen or Brasssert et al. as modified by Geissbuhler et al. as above includes all that is recited in claim 32 except for the pivotable gate. Sanderson teaches a fluidized bed device with pivotable gate 40 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further provide the device of Petersen or Brassert et al. with a pivotable gate as taught by Sanderson in order to control the product discharge.

Allowable Subject Matter

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6. Claims 14 and 15 are allowed.

Response to Arguments

7. Applicant's arguments with respect to claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EHUD GARTENBERG can be reached on 571 272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 3749